

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|-------|--|---------------------------|------------------|---------|---------------------|
| S1 | 17351 | (alcohol or methanol) and fuel cell | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/12 17:24 |
| S2 | 3447 | S1 and (liquid or aqueous or alkaline) near4 electroly\$4 | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/12 17:25 |
| S3 | 2241 | S2 and membrane with electroly\$4 | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/12 17:25 |
| S4 | 1673 | S2 and membrane with electroly\$4 and "429".clas. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/12 17:26 |
| S5 | 1541 | S2 and membrane with electroly\$4 and 429/12-46.ccls. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/12 17:26 |
| S6 | 350 | S5 and (anion) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/12 17:27 |
| S7 | 39029 | ((liquid or aqueous) near3 electrolyt\$3 | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/12 19:07 |
| S8 | 3512 | ((liquid or aqueous) near3 electrolyt\$3) and ((solid or polymer or matrix) near4 membrane) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/12 19:08 |
| S9 | 1830 | ((liquid or aqueous) near3 electrolyt\$3) and ((solid or polymer or matrix) near4 membrane) and fuel cell | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/12 19:09 |
| S10 | 773 | ((liquid or aqueous) near3 electrolyt\$3) and ((solid or polymer or matrix) near4 membrane) and (methanol or alcohol or propanol or ethanol) with fuel cell | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/12 19:09 |
| S11 | 774 | ((liquid or aqueous) near3 electrolyt\$3) and ((solid or polymer or matrix) near4 membrane) and (((methanol or alcohol or propanol or ethanol) with fuel cell) or dmfc) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/12 19:10 |
| S12 | 774 | ((liquid or aqueous) near3 electrolyt\$3) and ((solid or polymer or matrix) near4 membrane) and (((methanol or alcohol or propanol or ethanol) with fuel cell) or dmfc or aaac) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/12 19:10 |
| S13 | 1340 | ((liquid or aqueous) near3 electrolyt\$3) and ((solid or polymer or matrix) near4 membrane) and (((methanol or alcohol or propanol or ethanol) with fuel cell) or dmfc or aaac or 429/12-46.ccls.) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/12 19:10 |

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| S14 | 647 | ((liquid or aqueous) near3 electrolyt\$3) and ((solid or polymer or matrix) near4 membrane) and (((methanol or alcohol or propanol or ethanol) with fuel cell) or dmfc or aafc) and 429/12-46.ccls. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/12 19:11 |
| S15 | 446 | ((liquid or aqueous) near3 electrolyt\$3) same2 ((solid or polymer or matrix) near4 membrane) and (((methanol or alcohol or propanol or ethanol) with fuel cell) or dmfc or aafc) and 429/12-46.ccls. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/12 19:12 |
| S16 | 102 | ((liquid or aqueous) near3 electrolyt\$3) same2 ((solid or polymer or matrix) near4 membrane) and (((methanol or alcohol or propanol or ethanol) with fuel cell) or dmfc or aafc) and 429/12-46.ccls. and (alkaline near electrolyt\$3) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/12 19:56 |
| S17 | 194 | ((liquid or aqueous) near3 electrolyt\$3) same2 ((solid or polymer or matrix) near4 membrane) and (((methanol or alcohol or propanol or ethanol) with fuel cell) or dmfc or aafc) and 429/12-46.ccls. and (alkaline near electrolyt\$3 or potassium hydroxide or koh) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/12 19:56 |
| S18 | 766 | ((methanol or alcohol or propanol or ethanol) with fuel cell) or dmfc or aafc) and 429/12-46.ccls. and (alkaline near electrolyt\$3 or potassium hydroxide or koh) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/12 19:56 |
| S19 | 721 | ((methanol or alcohol or propanol or ethanol) with fuel cell) or dmfc or aafc) and 429/12-46.ccls. and (alkaline near electrolyt\$3 or potassium hydroxide or koh) and (polymer or membrane or asbestos or matrix) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/12 19:57 |
| S20 | 478 | ((methanol or alcohol or propanol or ethanol) with fuel cell) or dmfc or aafc) and 429/12-46.ccls. and (alkaline near electrolyt\$3 or potassium hydroxide or koh) and (polymer or membrane or asbestos or matrix) and ((liquid or aqueous or solution) near3 electrolyt\$3) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/12 19:58 |
| S21 | 1 | ("2003/0003348").URPN. | USPAT | ADJ | ON | 2009/02/12 20:11 |

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| S22 | 9 | "5656389" | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/12 20:51 |
| S23 | 8 | ("5656389").URPN. | USPAT | ADJ | ON | 2009/02/12 20:53 |
| S24 | 8 | ("3297490" "3647551" "4031292" "4185145" "5636437" "5851504").PN. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/13 14:52 |
| S25 | 9140 | alkaline fuel cell or "afc" | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/13 15:31 |
| S26 | 2067 | S25 and membrane | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/13 15:32 |
| S27 | 2890 | S25 and (membrane or asbestos or matrix) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/13 15:32 |
| S28 | 494 | S27 and (aqueous or liquid) with electrolyt\$3 | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/13 15:32 |
| S29 | 843376 | S28 and methanol or alcohol | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/13 15:35 |
| S30 | 369 | S28 and (methanol or alcohol) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/13 15:36 |
| S31 | 3820 | (dmfc or direct methanol or direct alcohol) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/13 16:17 |
| S32 | 522 | S31 and S25 | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/13 16:17 |
| S33 | 508 | S32 and (membrane or asbestos or matrix) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/13 16:17 |
| S34 | 206 | S33 and (aqueous or liquid) with electrolyt\$3 | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/13 16:18 |
| S35 | 331 | S31 and alkaline near4 electroly \$4 | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/13 16:24 |
| S36 | 324 | S35 and (membrane or asbestos or matrix) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/13 16:25 |
| S37 | 115 | S35 and (asbestos or matrix) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/13 16:59 |
| S38 | 773 | S31 and (asbestos or matrix) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/13 17:01 |
| S39 | 6 | ("2003/0170524").URPN. | USPAT | ADJ | ON | 2009/02/13 17:08 |
| S40 | 0 | 10/152068 | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/13 17:20 |
| S41 | 1 | "10152068" | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/13 17:21 |
| S42 | 6 | ("2003/0170524").URPN. | USPAT | ADJ | ON | 2009/02/13 17:21 |
| S43 | 2 | "3201283" | USPAT | ADJ | ON | 2009/02/13 17:24 |
| S44 | 1 | ("3201283").URPN. | USPAT | ADJ | ON | 2009/02/13 17:24 |
| S45 | 3 | ("4296184").URPN. | USPAT | ADJ | ON | 2009/02/13 17:24 |

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| S46 | 6 | ("3201283" "4107395" "5096663" "5298343" "5874182" "5958616").PN. | USPAT | ADJ | ON | 2009/02/13 17:27 |
| S47 | 102 | (kordesch near3 karl).in. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/13 17:28 |
| S48 | 36 | (kordesch near3 karl).in. and fuel cell | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/13 17:28 |
| S49 | 1294 | (dmfc or direct methanol or direct alcohol) and (alkaline or potassium hydroxide) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/13 17:36 |
| S50 | 1294 | (dmfc or direct methanol or direct alcohol) and (alkaline or potassium hydroxide) and (methanol or alcohol or ethanol or propanol) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/13 17:39 |
| S51 | 1262 | (dmfc or direct methanol or direct alcohol) and (alkaline or potassium hydroxide) and (methanol or alcohol or ethanol or propanol) same fuel | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/13 17:39 |
| S52 | 716 | (dmfc or direct methanol or direct alcohol) and ((alkaline or potassium hydroxide) same electroly\$4) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/13 17:40 |
| S53 | 4249 | fuel cell and ((alkaline or potassium hydroxide) same electroly\$4) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/13 18:09 |
| S54 | 2456 | S53 and (alcohol or methanol or propanol or ethanol) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/13 18:10 |
| S55 | 1151 | S53 and (alcohol or methanol or propanol or ethanol) and (matrix or asbestos or cloth) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/13 18:10 |
| S56 | 419 | S53 and ((alcohol or methanol or propanol or ethanol) same fuel) and ((matrix or asbestos or cloth) same electroly\$3) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/13 18:11 |
| S57 | 10 | "4801359" | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/13 21:56 |
| S58 | 282 | asbestos same membrane and (dmfc or direct methanol or fuel cell) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/13 21:59 |
| S59 | 10 | "4975172" | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/13 22:26 |
| S60 | 21 | "4315954" | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/13 22:56 |
| S61 | 0 | "4615954""4315954" | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/13 22:56 |
| S62 | 56 | "4615954" | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/13 22:56 |
| S63 | 2 | "6814777" | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/13 23:04 |
| S64 | 18 | "3673116" | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/13 23:05 |

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| S65 | 2 | "6814777" | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/13 23:21 |
| S66 | 608 | raney nickel same ((platinum near2 ruthenium) or (ru near2 pt)) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/14 00:11 |
| S67 | 17 | raney nickel same ((platinum near2 ruthenium) or (ru near2 pt)) and (direct methanol or dmfc or fuel cell) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/14 00:12 |
| S68 | 18 | "3673116" | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/14 00:15 |
| S69 | 2093 | raney nickel and ((pt near2 ru) or (platinum with ruthenium)) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/14 00:17 |
| S70 | 78 | raney nickel and ((pt near2 ru) or (platinum with ruthenium)) and fuel cell | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/14 00:17 |
| S71 | 220 | Nafion same (pbi or polybenzimidazole) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/14 01:17 |
| S72 | 215 | Nafion same (pbi or polybenzimidazole) and fuel cell | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/14 01:18 |
| S73 | 108 | Nafion same (pbi or polybenzimidazole) and fuel cell and (direct methanol or dmfc) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/14 01:18 |
| S74 | 16 | "3553022" | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/14 01:46 |
| S75 | 716 | (dmfc or direct methanol or direct alcohol) and ((alkaline or potassium hydroxide) same electroly\$4) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/14 01:46 |
| S76 | 552 | (dmfc or direct methanol or direct alcohol) and ((alkaline or potassium hydroxide) same electroly\$4) and (anode or electrode) same (carbon or graphite or polytetrafluoroethylene or ptfe) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/14 01:47 |
| S77 | 2478 | (direct methanol or dmfc) and (layer or two layer\$3 or bilayer \$3) same (anode or electrode) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/14 16:26 |
| S78 | 114 | (direct methanol or dmfc) and (two layer\$3 or bilayer\$3) same (anode or electrode) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/14 16:27 |
| S79 | 18 | (direct methanol or dmfc) and (two layer\$3 or bilayer\$3) same (anode or electrode) and (pbi or polybenzimidazole) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/14 16:31 |
| S80 | 472 | (direct methanol or dmfc) and (pbi or polybenzimidazole) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/14 16:33 |
| S81 | 53 | (direct methanol or dmfc) and (pbi or polybenzimidazole) | FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/02/14 17:40 |

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| S82 | 349 | (direct methanol fuel cell or dmfc) and (anode same (ptfe or fluoroplastic or polytetrafluoroethylene or polytetrafluoro ethylene)) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/14 18:40 |
| S83 | 449 | (direct methanol fuel cell or dmfc) and (anode same (ptfe or fluoroplastic or polytetrafluoroethylene or polytetrafluoro ethylene or teflon or teflon)) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/14 18:41 |
| S84 | 1 | "10152068" | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/14 19:07 |
| S85 | 1 | "0001376" | DERWENT | ADJ | ON | 2009/02/14 19:12 |
| S86 | 3 | (porous nickel same (fill\$3 or impregnat\$4)) and (direct methanol or dmfc or air near2 alcohol) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/17 00:44 |
| S87 | 1 | (porous nickel and (fill\$3 or impregnat\$4)) and (direct methanol or dmfc or air near2 alcohol) | FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/02/17 00:45 |
| S88 | 299 | (porous nickel and (fill\$3 or impregnat\$4)) | FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/02/17 00:49 |
| S89 | 23 | (porous nickel and (fill\$3 or impregnat\$4) and fuel cell) | FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/02/17 00:49 |
| S90 | 0 | ((spongy or spongy) nickel and (fill\$3 or impregnat\$4) and fuel cell) | FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/02/17 00:54 |
| S91 | 1 | ((spongy or spongy) near2 nickel and (fill\$3 or impregnat\$4) and fuel cell) | FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/02/17 00:54 |
| S92 | 7 | ((foam) near4 nickel and (fill\$3 or impregnat\$4) and fuel cell) | FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/02/17 00:54 |
| S93 | 3 | ((foam) near4 nickel same (fill\$3 or impregnat\$4)) and (direct methanol or dmfc or air near3 alcohol or fuel cell) | FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/02/17 00:57 |
| S94 | 55 | ((foam) near4 nickel same (fill\$3 or impregnat\$4)) and (direct methanol or dmfc or air near3 alcohol or fuel cell) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/17 00:57 |
| S95 | 288 | ((foam or porous or spongy or spongy) near4 nickel same (fill\$3 or impregnat\$4)) and (direct methanol or dmfc or air near3 alcohol or fuel cell) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/17 00:58 |
| S96 | 496 | (direct methanol or dmfc or air near3 alcohol) and (pbi or polybenzimidazole) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/17 01:45 |

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| S97 | 133 | (direct methanol or dmfc or air near3 alcohol) and ((pbi or polybenzimidazole) same (anode or electrode) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/17 01:46 |
| S98 | 13 | "6485851" | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/17 02:01 |
| S99 | 770 | (direct methanol or dmfc or (alcohol near3 air)) and ((anode or electrode) same (ptfe or polytetrafluoro\$1ethylene or fluoroplastic)) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/17 02:34 |
| S100 | 293 | (direct methanol or dmfc or (alcohol near3 air)) and ((anode or electrode) same (ptfe or polytetrafluoro\$1ethylene or fluoroplastic)) and (potassium hydroxide or koh or alkaline) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/17 02:34 |
| S101 | 212 | (direct methanol or dmfc or (alcohol near3 air)) and ((anode or electrode) same (ptfe or polytetrafluoro\$1ethylene or fluoroplastic) same (wt or weight or percent or "%")) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/02/17 02:49 |

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